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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
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		<del>EP0874464 A1</del>	<del>04-12-2000</del>	<del>BorgWarner Automotive Inc</del>		
		EP1039168 A1	09-27-2000	BorgWarner Inc.		
		<del>EP 1203037 A1</del>	<del>05-08-2002</del>	<del>BorgWarner Inc.</del>		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4674616	06-23-1987	Mannino, Jr.	
		US- 4694937	09-22-1987	Jonas	
		US- 4698889	10-13-1987	Patzer et al.	
		<del>US- 4700020</del>	<del>10-20-1987</del>	<del>Windler</del>	
		US- 4726455	02-23-1988	East	
		US- 4732247	03-22-1988	Frost	
		US- 4742723	05-10-1988	Lanzerath et al.	
		US- 4743634	05-10-1988	Royer	
		US- 4770283	09-13-1988	Putz et al.	
		<del>US- 4772500</del>	<del>09-20-1988</del>	<del>Bracewell</del>	
		US- 4792361	12-20-1988	Double et al.	
		US- 4861809	08-29-1989	Ogawa et al.	
		US- 4878282	11-07-1989	Bauer	
		US- 4913267	04-03-1990	Campbell et al.	
		US- 4915856	04-10-1990	Jamison	
		US- 4917743	04-17-1990	Gramberger et al.	
		US- 4918116	04-17-1990	Gardziella et al.	
		US- 4927431	05-22-1990	Buchanan et al.	
		US- 4951798	08-28-1990	Knoess	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP1391629 A1	02-25-2004	BorgWarner Inc.		
		EP1394438 A1	03-03-2004	BorgWarner Inc.		
		EP1396655 A1	03-10-2004	BorgWarner Inc.		
		EP1517062 A1	03-23-2005	BorgWarner Inc.		
		EP1521001 A2	04-06-2005	BorgWarner Inc.		
		EP1521007 A2	04-06-2005	BorgWarner Inc.		

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Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 4950530	08-21-1990	Shibatani	
		US- 4983457	01-08-1991	Hino et al.	
		US- 4986397	01-22-1991	Vierk	
		US- 4995500	02-26-1991	Payvar	
		US- 4997067	03-05-1991	Watts	
		US- 5004497	04-02-1991	Shibata et al.	
		US- 5017268	05-21-1991	Clitherow et al.	
		US- 5033596	07-23-1991	Genise	
		US- 5038628	08-13-1991	Kayama	
		US- 5076882	12-31-1991	Oyanagi et al.	
		US- 5080969	01-14-1992	Tokumura	
		<del>US- 5082650</del>	<del>01-28-1992</del>	<del>Seiz et al.</del>	
		US- 5093388	03-03-1992	Siemon, Jr. et al.	
		US- 5094331	03-10-1992	Fujimoto et al.	
		US- 5101953	04-07-1992	Payvar	
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		US- 5164256	11-17-1992	Sato et al.	
		US- 5211068	05-18-1993	Spitale et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP1614926 A1	01-11-2006	BorgWarner Inc.		
		EP1911990 A2	04-16-2008	Honeywell International		
		GB1054890	01-11-1967	Ferodo Lmt.		
		GB1604827	12-16-1981	Ferodo Lmt.		
		GB2241246 A	08-28-1991	Nisshinbo Industries Inc		
		GB2224285 A	05-02-1990	Honda Giken Kogyo Kabushiki		

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Application Number	10678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5221401	06-22-1993	Genise	
		US- 5233736	08-10-1993	Hill	
		US- 5259947	11-09-1993	Kalback et al.	
		US- 5266395	11-30-1993	Yamashita et al.	
		US- 5269400	12-14-1993	Fogelberg	
		US- 5290627	03-01-1994	Ikuta	
		US- 5313793	05-24-1994	Kirkwood et al.	
		US- 5332075	06-26-1994	Quigley et al.	
		US- 5335765	08-09-1994	Takakura et al.	
		US- 5354603	10-11-1994	Errede et al.	
		US- 5376425	12-27-1994	Asano et al.	
		<del>US- 5385861</del>	<del>03-07-1995</del>	<del>Miyachi et al.</del>	
		US- 5396552	03-07-1995	Jahn et al.	
		US- 5437780	08-01-1995	Southard et al.	
		US- 5439087	08-08-1995	Umezawa	
		US- 5445060	08-29-1995	Randall et al.	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		JP3281686 A	12-12-1991	Nissin Kogyo KK		
		JP5247233 A	09-24-1993	Toyota Motor Corp		
		JP07-151174	06-13-1996	BorgWarner Automotive Inc		
		JP07-173301	07-11-1995	BorgWarner Automotive Inc		
		JP09-176333	07-08-1997	BorgWarner Automotive Inc		
		JP10110740 A	04-28-1998	BorgWarner Automotive		

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Sheet 10

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Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5474159	12-12-1995	Soenneken et al.	
		US- 5478642	12-26-1995	McCord	
		US- 5501788	03-26-1996	Romine et al.	
		US-			
		US- 5520866	05-28-1996	Kaminski et al.	
		US- 5529666	06-25-1996	Yesnik	
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		<del>US- 5571072</del>	<del>11-05-1996</del>	<del>Miyajishi et al.</del>	
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		US- 5615758	04-01-1997	Nels	
		US- 5620075	04-15-1997	Larsen et al.	
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		<del>US- 5646076</del>	<del>07-08-1997</del>	<del>Bort</del>	
		US- 5648041	07-15-1997	Rodgers et al.	
		<del>US- 5662003</del>	<del>08-03-1997</del>	<del>Winkler</del>	
		US- 5670231	09-23-1997	Ohya et al.	
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		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
		JP1134002 A	05-26-1989	Ibiden Co. Ltd.		
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		JP20000336343	12-05-2000	BorgWarner Inc.		

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Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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		US- 5674947	10-07-1997	Oishi et al.	
		<del>US- 5676577</del>	<del>10-11-1997</del>	<del>Lam et al.</del>	
		US- 5705120	01-06-1998	Ueno et al.	
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		US- 5733176	03-31-1998	Robinson et al.	
		US- 5753018	05-19-1998	Lamport et al.	
		<del>US- 5753256</del>	<del>05-10-1998</del>	<del>Lam et al.</del>	
		US- 5766523	06-16-1998	Rodgers et al.	
		US- 5771691	06-30-1998	Kirkwood et al.	
		<del>US- 5775468</del>	<del>06-17-1998</del>	<del>Lam et al.</del>	
		US- 5776288	06-07-1998	Stefanutti et al.	
		US- 5777791	07-07-1998	Hedblom	
		US- 5792544	08-11-1998	Klein	
		US- 5803210	09-08-1998	Kohno et al.	
		<del>US- 5816881</del>	<del>10-06-1998</del>	<del>Sirony</del>	
		US- 5827610	10-27-1998	Ramachandran	
		US- 5842551	12-01-1998	Nels	
		US- 5834551	11-10-1998	Haraguchi et al.	

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		JP2002003280 A	01-09-2002	Toray Industries		
		JP2003003155	01-08-2003	Aisin Seiki: Aisin Chem		
		JP2004132547 A	04-30-2004	BorgWarner Inc.		
		JP2004217790 A	08-05-2004	Dainatsukusu KK		
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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5845754	12-08-1998	Weilant	
		<del>US- 5856244</del>	<del>01-05-1999</del>	<del>Lam et al.</del>	
		US- 5858166	01-12-1999	James et al.	
		<del>US- 5868888</del>	<del>01-12-1999</del>	<del>Lam et al.</del>	
		US- 5895716	04-13-1999	Fiala et al.	
		US- 5858883	01-12-1999	Lam et al.	
		US- 5889082	03-30-1999	Kaminski et al	
		US- 5897737	04-27-1999	Quigley	
		US- 5919528	07-06-1999	Huijs et al.	
		US- 5919837	07-06-1999	Kaminski et al	
		<del>US- 5952240</del>	<del>08-14-1999</del>	<del>Cibeen et al.</del>	
		<del>US- 5958507</del>	<del>08-28-1999</del>	<del>Lam et al.</del>	
		<del>US- 5965658</del>	<del>10-12-1999</del>	<del>Smith et al.</del>	
		US- 5975270	11-02-1999	Tokune et al.	
		US- 5975988	11-02-1999	Christianson	
		<del>US- 5989375</del>	<del>11-23-1999</del>	<del>Bortz</del>	
		<del>US- 5990300</del>	<del>11-23-1999</del>	<del>Lee</del>	
		<del>US- 5998307</del>	<del>12-07-1999</del>	<del>Lam et al.</del>	
		US- 5998311	12-07-1999	Nels	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP2002234951 A	08-23-2002	BorgWarner Inc.		
		JP58180573 A	10-22-1983	Akechi Ceramics KK		
		JP5009458 A	01-19-1993	Toshiba Tungaloy Co Ltd		
		JP55005907 A	01-17-1980	Kureha Chemical Ind Co Lt		
		JP59103040 A	06-14-1984	Komatsu Mfg Co Ltd		
		JP6240233 A	08-30-1994	Toshiba Tungaloy Co Ltd		

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STATEMENT BY APPLICANT**

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Sheet 13

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Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5998311	12-07-1999	Nels	
		US- 6000510	12-14-1999	Kirkwood et al.	
		<del>US- 6001750</del>	<del>12-14-1999</del>	<del>Lam</del>	
		US- 6019205	02-01-2000	Willworth	
		US-			
		US- 6042935	03-28-2000	Krenkel et al.	
		US- 6060536	05-09-2000	Matsumoto et al.	
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		US- 6074950	06-13-2000	Wei	
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		US- 6123829	09-26-2000	Zommerman et al.	
		<del>US- 6130176</del>	<del>10-10-2000</del>	<del>Lam</del>	
		US- 6132877	10-17-2000	Winckler et al.	
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		US- 6217413 B1	04-17-2001	Christianson	
		US- 6231977 B1	05-15-2001	Suzuki et al.	

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		JP6299434 A	10-25-1994	Staubli Sa Ets		
		JP63066230 A	03-24-1988	Aisin Chem		
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Application Number	10/678720
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT0076 (0309.4085.901)

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 6265066 B1	07-24-2001	Suzuki et al.	
		US- 6284815 B1	09-04-2001	Sasahara et al.	
		<del>US- 6304040 B1</del>	<del>09-18-2001</del>	<del>Moriwaki et al.</del>	
		US- 6315974 B1	11-13-2004	Murdie et al.	
		US- 6316086 B1	11-13-2001	Beier et al.	
		<del>US- 6322160 B1</del>	<del>11-27-2001</del>	<del>Murdie et al.</del>	
		US- 6352758 B1	03-05-2002	Huang et al.	
		US- 6383605 B1	05-07-2002	Ejiri	
		<del>US- 6387534 B1</del>	<del>05-14-2002</del>	<del>Pi et al.</del>	
		US- 6423668 B1	07-23-2002	Nakanishi et al.	
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		US- 6432187 B1	08-13-2002	Ogawa et al.	
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		<del>US- 6604324 B1</del>	<del>08-05-2003</del>	<del>Kendall</del>	
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		<del>US- 6620416 B1</del>	<del>10-07-2003</del>	<del>Lam et al.</del>	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP5247447 A	09-24-1993	Minnesota Mining, Gen Mot		
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		WO2006/116474 A2	11-02-2006	BorgWarner Inc.		
		WO2007/055951 A1	05-18-2007	BorgWarner Inc.		
		WO95/26473	10-05-1995	Valeo		

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Examiner Name	Jennifer A. Steele
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		US- 6668891 B2	12-30-2003	Collis	
		US- 6703117 B2	03-09-2004	Gruber et al.	
		US- 6831146 B2	12-14-2004	Aiba et al.	
		US- 6855410 B2	12-15-2005	Buckley	
		<del>US- 6875711 B2</del>	<del>05-05-2005</del>	<del>Chen et al.</del>	
		US- 6951504 B2	10-04-2005	Adefris et al.	
		US- 7014027 B2	03-21-2006	Adair et al.	
		US- 7160913 B2	01-09-2007	Schneider	
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		US- 7332240 B2	02-19-2008	O'Hara et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO96/10701 A1	04-11-1996	Nels, Terry E.		
		WO98/09093 A1	03-05-1998	BorgWarner Inc.		
		WO99/35415 A1	07-15-1999	Nels, Terry E.		

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		Application Number	10/678720
		Filing Date	October 03, 2003
		First Named Inventor	Robert C. Lam
		Art Unit	1794
		Examiner Name	Jennifer A. Steele
Sheet 16 of 20	Attorney Docket Number	DKT0076 (0309.4085.901)	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Application No. EP01309199 Search Report, completed 15 February 2002	
		Application No. EP02257364 Search Report, completed 3 December 2003	
		Application No. EP03255504 Search Report, completed 4 December 2003	
		Application No. EP03256313 Search Report, completed 5 March 2009	
		Application No. EP04253746 Search Report, completed 3 May 2005	
		Application No. EP04255582 Search Report, completed 15 June 2007	
		Application No. EP04255993 Search Report, completed 5 June 2009	
		Application No. EP05254284 Search Report, completed 2 November 2005	
		Application No. EP05253694 Search Report, completed 18 October 2005	
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		BLANCO et al., Chemical and Physical properties of carbon as related to brake performance, Elsevier, Wear 213 (1997) pp 1-12	

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		Application Number	10/678720
		Filing Date	October 03, 2003
		First Named Inventor	Robert C. Lam
		Art Unit	1794
		Examiner Name	Jennifer A. Steele
Sheet 19 of 20	Attorney Docket Number	DKT0076 (0309.4085.901)	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Carbon Fiber for Wet-Friction Transmissions, SAE Technical, Off-Highway Engineering/February 1998, pp.46-48	
		HETTINGER, JR. et al., Carboflex and Aerocarb-Ashland's New Low Cost Carbon Fiber and Carbonizing Products for Future Break Applications, 860767, Copyright 1986, pp. 1-11	
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		MPEP 1504.6 Double Patenting [R-5] - 25-- Design Patents, United States Patent and Trademark Office, USPTO.gov, Last Modified: 12/05/2006	
		USSN 12/185,236; FRICTION MATERIAL WITH SILICON, Feng Dong, Filed 08-04-2008	
		USSN 12/084,514; CARBON FRICTION MATERIALS, Feng Dong et al., Filed 05-01-2008	
		USSN 10/871,786; FULLY FIBROUS STRUCTURE FRICTION MATERIAL, Robert C. Lam, Filed 06-18-2004	

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		USSN 11/410,722, FRICTION MATERIAL, Robert C. Lam, Filed 04-25-2006	
		USSN 12/225,014, FRICTION MATERIALS MADE WITH RESINS CONTAINING POLAR FUNCTIONAL GROUPS, Timothy P. Newcomb, Filed 09-10-2008	
		<del>USSN 10/678,720, FRICTION MATERIAL CONTAINING PARTIALLY CARBONIZED CARBON FIBERS, Robert C. Lam, Filed 10-03-2003</del>	
		USSN 12/400,904, FRICTIONAL DEVICE COMPRISING AT LEAST ONE FRICTION PLATE, Eckart Gold, Filed 03-10-2009	
		USSN 12/492,261, FRICTION MATERIALS, Herschel L. McCord, Filed 06-26-2009	
		USSN 10/898,882, POROUS FRICTION MATERIAL WITH NANOPARTICLES OF FRICTION MODIFYING MATERIAL, Robert C. Lam, Filed 07-26-2004	
		USSN 10/678,598, MIXED DEPOSIT FRICTION MATERIAL, Robert C. Lam, Filed 10-03-2003	
		USSN 10/678,599, HIGH PERFORMANCE, DURABLE, DEPOSIT FRICTION MATERIAL, Robert C. Lam, Filed 10-03-2003	
		USSN 10/916,328, HIGH COEFFICIENT WOVEN FRICTION MATERIAL, Robert C. Lam, Filed 08-11-2004	
		USSN 12/157,901, POROUS FRICTION MATERIAL COMPRISING NANOPARTICLES OF FRICTION MODIFYING MATERIAL, Robert C. Lam, Filed 06-12-2008	

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